INTELLOFAX 11		CLASSIFICATION SHE	COMPECTAVE C	50X1-HUM		
		CENTRAL INTELLIGENCE AGENCY		REPORT		191
		INFORMATI	ION REPOR	CD NO		
COUNTRY	German	y (Russien Zene)		DATE U		
SUBJECT		gs of the Special Com held 20 April and 21		NO. OF		ember 1951
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DATE OF NFO.				SUPPLE REPORT	MENT TO NO	50X1-HUN
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	™ho fo	llouing matters were a	emang those discus	ased at the t	um meetings	of the
	Special April	Louing Tatters were a Cornission for Radional 21 June, 1951.				
1.	In view of the difficulty of obtaining vacuum pumps for tube producing machines, a representative of the firm Deutsche Vacuumapparate, Dreyer und Holland-Mertens, Sangershausen, had been invited to address the Commission. It appeared from his speech that the pumps made by the firm would be suitable only for preliminary evacuation (e.g. possible as a "Sammelvorpumpe" in the manufacture of television tubes), since the pumps were too large and the vacuum attained (2.10-4)(1) was not high enough for final evacuation. In any case, reperation orders absorbed practically the whole output of the factory. Shortage of materials, especially centrifugal castings and nickel cylinders caused difficulties in production. The standard line of the factory appeared to be a 4.5 m ³ (2) Duplex-pump, producing a vacuum of 10 ⁻⁴ (1) at 900-1400 RPM. Erfurt(3) had asked them to supply diffusion pumps producing a vacuum of 10 ⁻⁶ , and one producing a vacuum of 10 ⁻⁵ had been successfully designed. Froduction was held up by the shortage of stainless (Nirosta) steel.					
. 2.	Represe on tube	entatives of the various rejected in the fir	ous factories repo nal tests.	rted the fol	lowing stati	stics
			<u>Jan</u>	Feb	March	
	Werk III	2(4)	15%	12%	30%	
	(The ri	se in March was due to the Tall Leningrad	to the commencement television recei	it of a serie	s production	of new
	Neuhaus	(5)	٠ ۵۵ ٠	43.7%	36.8%	
	(90% of	the 2.2.C. rectifier	es had to be rejec	ted).		
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	Jan	Feb	March
Phonetika-Radio, Berlin	••	32.5%	43%
<u>Erfurt</u>	-	40.3%	38.8%

These rejections were said to be largely due to the poor quality of the tungsten wire supplied by the Berliner Glühlampenwerk (VEB) and the Werk HF

- 3. Pure iron supplied by the Maxhutte. Unterwellenborn, and rolled in Hettstedt (6), was of variable quality. Only 50% of the iron received by the
 Werk HF proved suitable for use in tubes.
- 4. Prof. Dr. (fmu) Maurer was attempting to produce an "Armoo" iron in the Mineralogical Institute in Rettatedt. However, the iron still contained 0.25% copper, much more than the 0.05% maximum allowed.
- 5. Hettstedt was now producing iron carbonyl powder, and was delivering it to Hescho(7) for further treatment.
- 6. Hettstedt would be able to supply the Nickel-E (Einbau) required in the manufacture of tubes. Three tons would be required for the whole of the Russian Zone in 1951. Hettstedt was also rolling and drawing the Nickel-A required in the manufacture of cathodes. This was being produced in Auerhammer (8), where a hydrogen furnace and vacuum smeltery with a capacity of 15 kg per diem (one charge per diem) had started operating.
- 7. Dr. Schiering of the Supplies Department of the Planning Ministry(9) announced that 1,000 tons of scheelite had been ordered from China.
- 8. The Werk HF and Erfurt were instructed not to make any more tubes of types A and C. In future only Phonetika-Radio was to make these types of tubes.
- 9. It was decided to test packing methods in a practical way by each firm shipping by rail to one of the other firms several crates of tubes, which the second firm would return by rail to the original firm for testing.

 However, not one of the crates had completed the round trip at the time of the meeting on 21 June, because of the slowness of the authorities, in issuing the necessary permits for the return journeys of the crates.

Meeting on 21 June.

- 10. The proceedings were opened with an address by a representative of the Berliner Glühlampenwerk on the production of tungsten wire.
- 11. Werk HF reported that rejection figures lay between 10.5% and 50% (on the P.50 television tube) for the various types of tubes produced in May. Phonetika (now known as "Stern-Radio", Berlin-Weissensee) reported the figures of 27% (AJ 4), 57% (AF.7), 30% (AL.4) and 19% (CL.4). All factories reported that the quality of the glass used in the tubes had deteriorated considerably. Another cause of poor quality tubes was the extremely variable nature of the town gas supply.
- 12. The Erfurt factory reported that they were now independent of imports of Fe-strip (FE-Bander) and mickel-plated strip because Fe-strip of a satisfactory quality was now produced in the DDR. Blank Fe-strip was, in addition, galvanized or treated cataphoretically. (sic). Dr. (fnu) Heintze was experimenting with aluminium plating. Neuhaus had tried rubbing in aluminum powder and conversion in a high vacuum (sic) and had had good results, but the process was expensive.

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1.	Comment: Unit of pressure not specified; however, it appears be mm. of Hg. (Mercury).
2.	Comment: Unit of time not specified.
3.	Comment: Possibly Telefunken Radio factory, Erfurt.
4.	Comment: Work für Fernmeldewesen "HF" (Oberspreuwerk), Berlin.
5.	Comment: Fossibly Telefunken Radio factory, Neuhaus.
6.	Comment: irobably SAG Marten, Walzwerk für Buntmetalle,
7 .	Comment: Secho Keramikwerk, Hermsdorf. 50X1-HUM
8.	Comment Not further identified.
9.	Comput: State Planning Commission.

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